



From One-to-One Collaboration towards a National Roadmap for Data Integration

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Eighth meeting of the UN Expert Group on the Integration of Statistical and Geospatial Information and the seventh meeting of the Working Group on Geospatial Information of the Inter-agency and Expert Group on the SDG Indicators

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Successful one-to-one collaboration

– good work but not enough

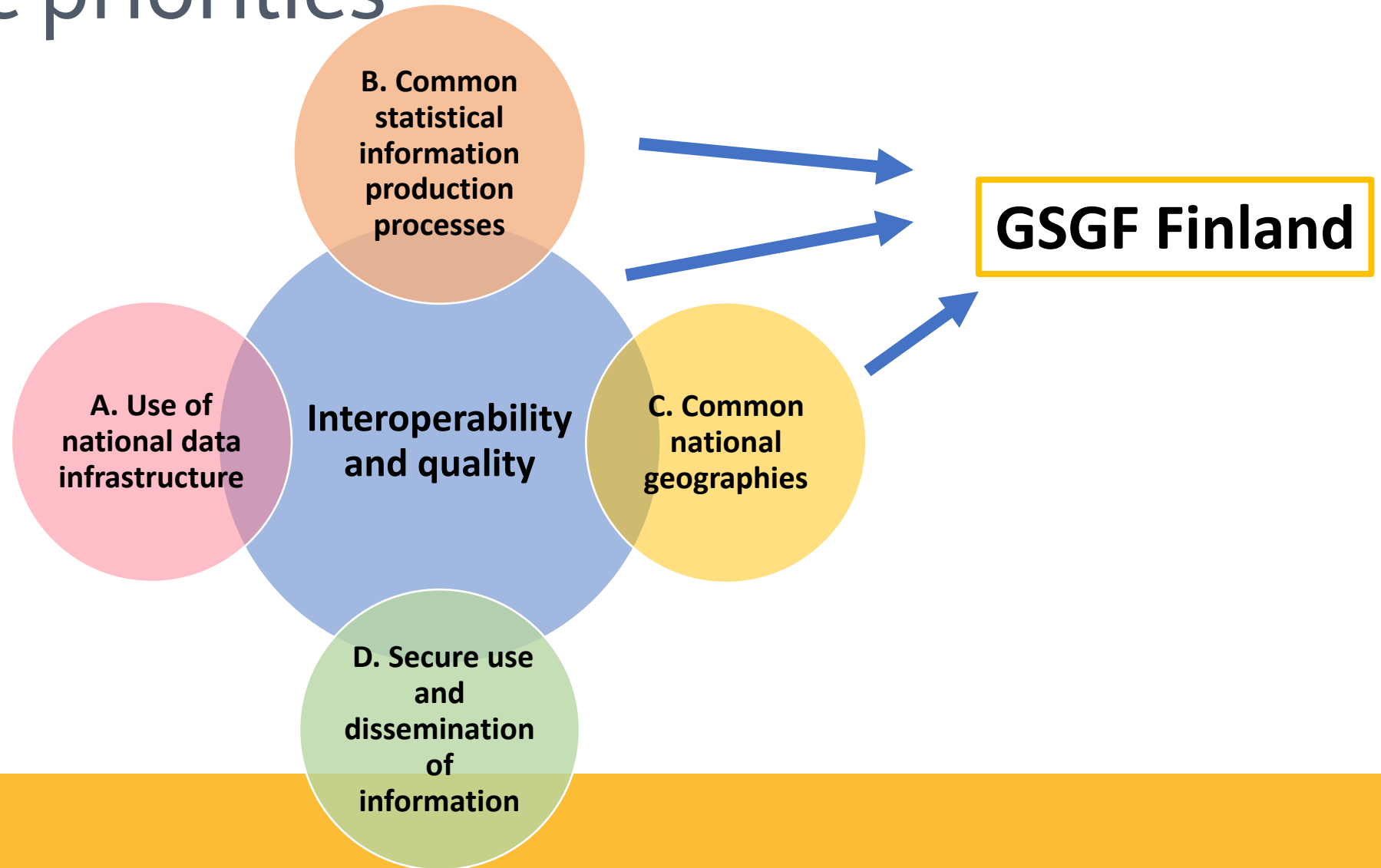
- Over 10 years of geo-statistical collaboration between Statistics Finland and National Land Survey of Finland
- Several joint Eurostat-funded projects since 2011
 - *From open source thematic web maps to open linked data and standards-based data joining service pilots*
- Interoperability expert group since 2018
 - *Digging deeper into cross-agency interoperability of data, processes and services – enterprise architecture methods*
- Strategic executive-level Steering Board since 2021
 - *Coordinate collaboration in national and international expert groups and projects related to data integration*
 - *”From pilots to production”*

Next level – national-level stakeholder co-operation

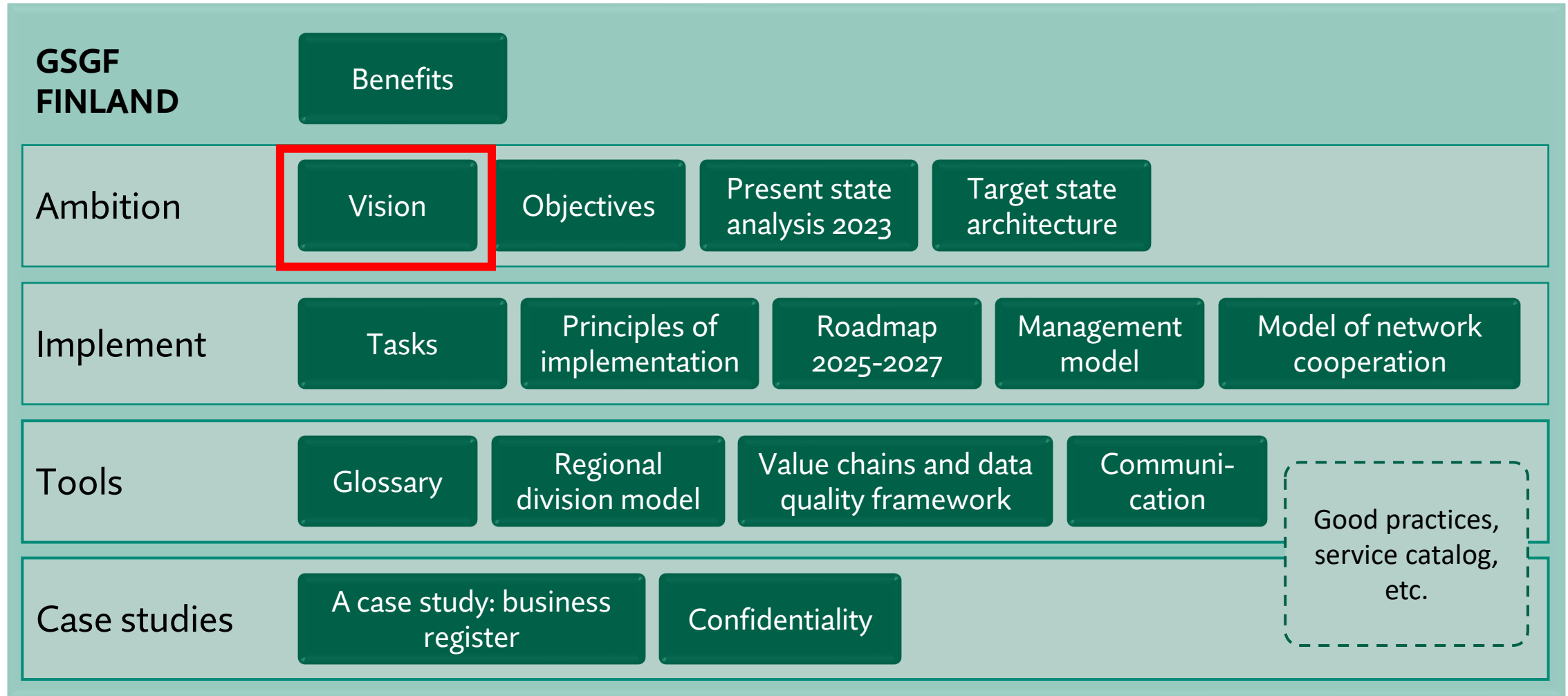
- National Network for Integration of Statistical and Geospatial Information established in 2021
- Main goal to promote interoperability, collaboration and communication of integration of statistical and geospatial information
- Work coordinated by NLSFI, STATFI and Finnish Environmental Institute SYKE
- About 70 persons from 30 organisations involved – government agencies, academia, municipalities, ministries and private sector
- Close collaboration with other related national stakeholder networks, e.g. Geoforum Finland

National Integration Network strategic priorities

**Enterprise
architecture
methodology**



GSGF Finland –Towards a national geo-statistical roadmap and ecosystem



The vision of GSGF Finland

Finland has a geospatial infrastructure that provides location data for information production needs.

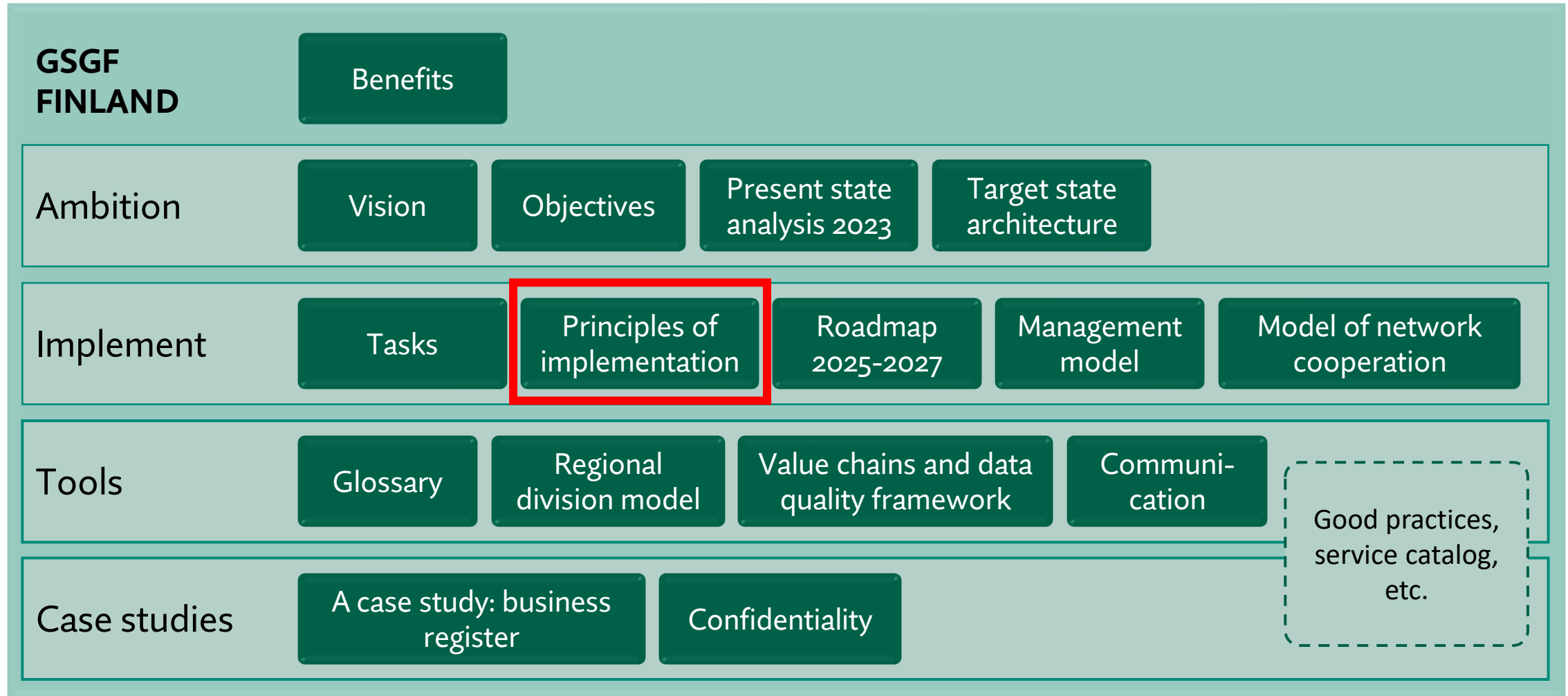
Location information is based on unit-level data and integrating it with other data is efficient.

The foundation of regional information is the national small area system and statistical grids.

Geospatial and regional data are discoverable and can be safely utilised.

The societal significance of integrating statistics and geospatial information has been recognized across administrative domains.

GSGF Finland –Towards a national geo-statistical roadmap and ecosystem



GSGF Finland

Principles of Implementation

The implementation of GSGF Finland is strengthened by developing statistical, data, and geospatial standards and methods in collaboration and across sectors.

The implementation of GSGF Finland relies on the description of activities.

The descriptions and identified best practices made during the implementation of GSGF Finland are communicated openly.

The implementation of GSGF Finland relies on existing legislation while also identifying areas for development.

The steering and funding solutions for the implementation of GSGF Finland extend across ministerial sectors

The implementation of GSGF Finland is based on continuous development and the avoidance of technological debt. It promotes the interoperability of information systems, advanced process automation, and the utilisation of artificial intelligence.

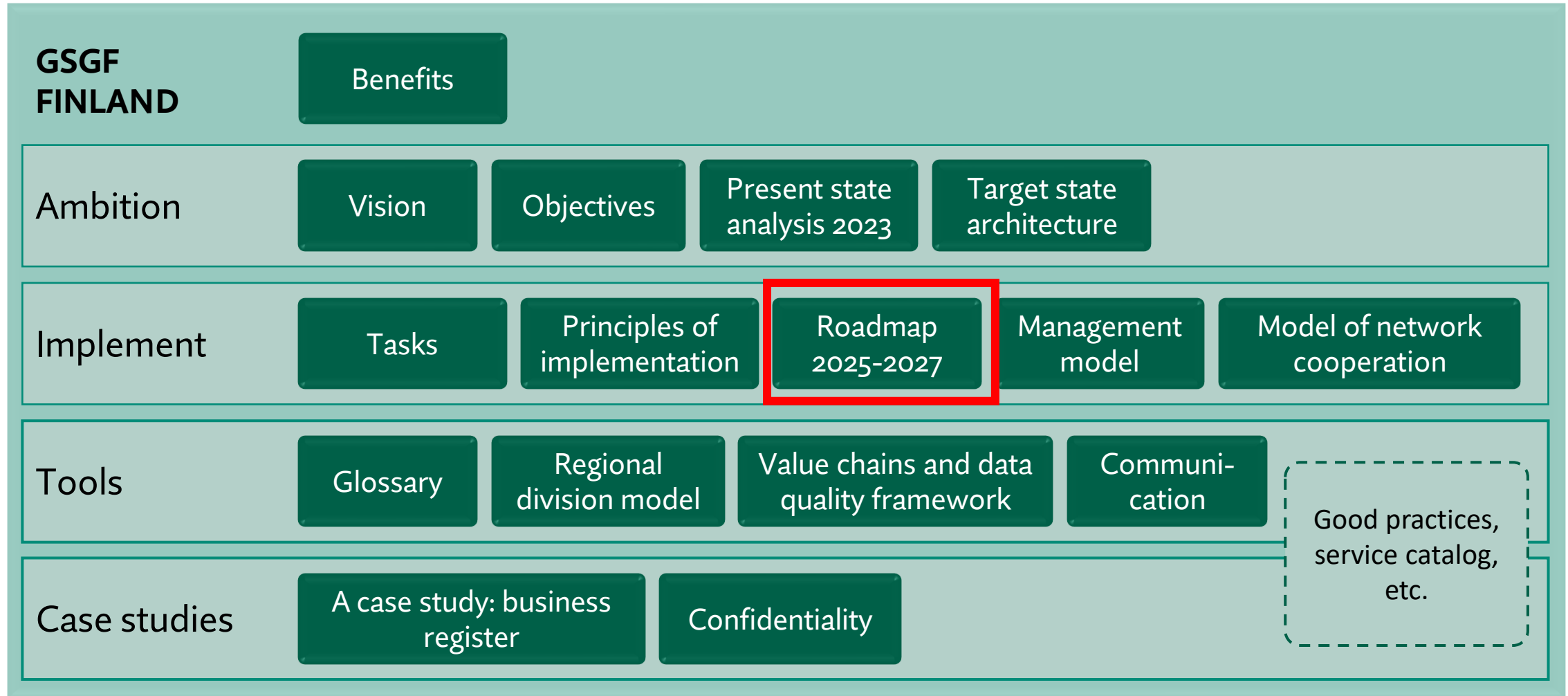
The implementation of GSGF Finland takes into account the very different levels of geospatial expertise among actors.

The implementation of GSGF Finland leverages the capabilities of various actors for the benefit of all.

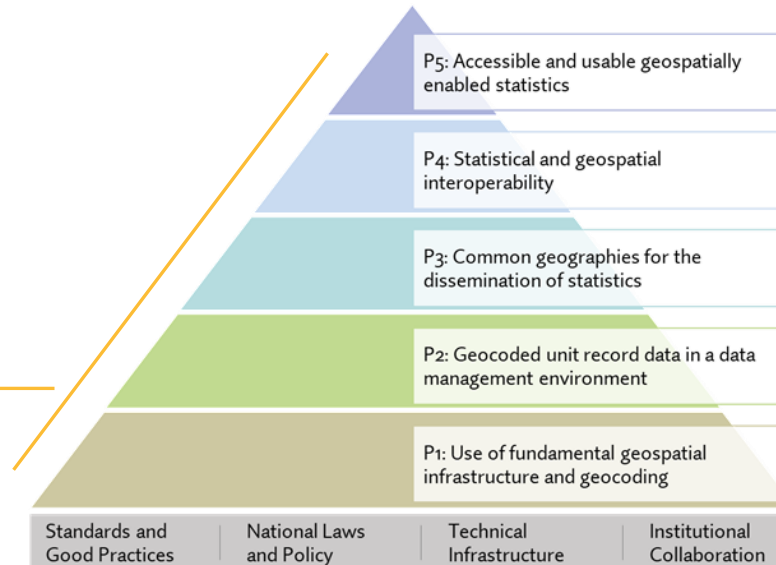
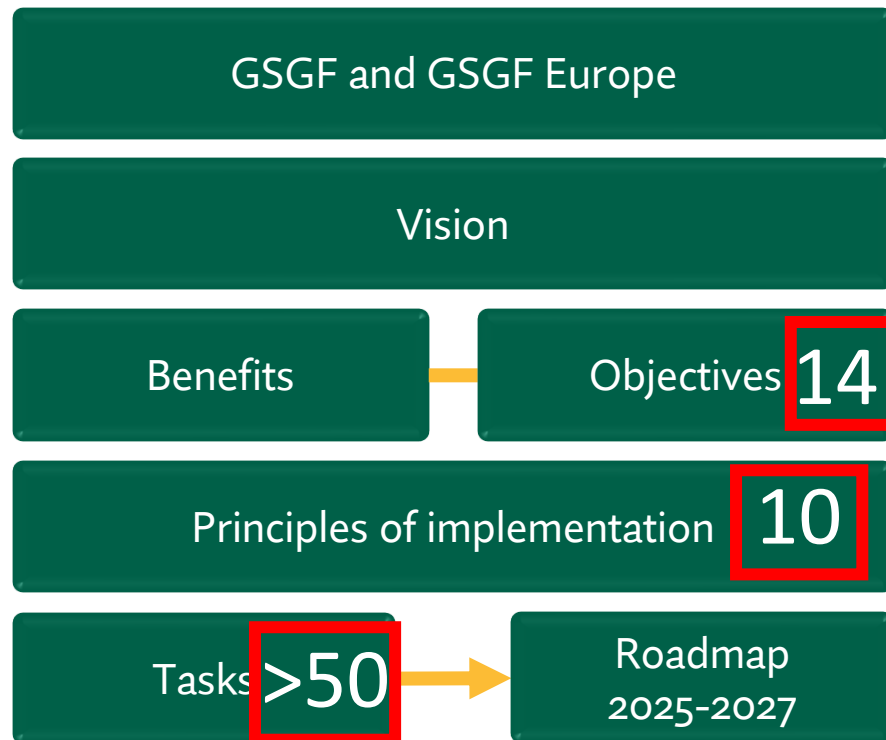
The implementation of GSGF Finland relies on operating models that support collaboration, active communication of changes, and strengthened networks, as well as recognising and exemplifying the roles of organisations.

The implementation of GSGF Finland enhances the overall development of public administration services and solutions.

GSGF Finland –Towards a national geo-statistical roadmap and ecosystem



Building the roadmap



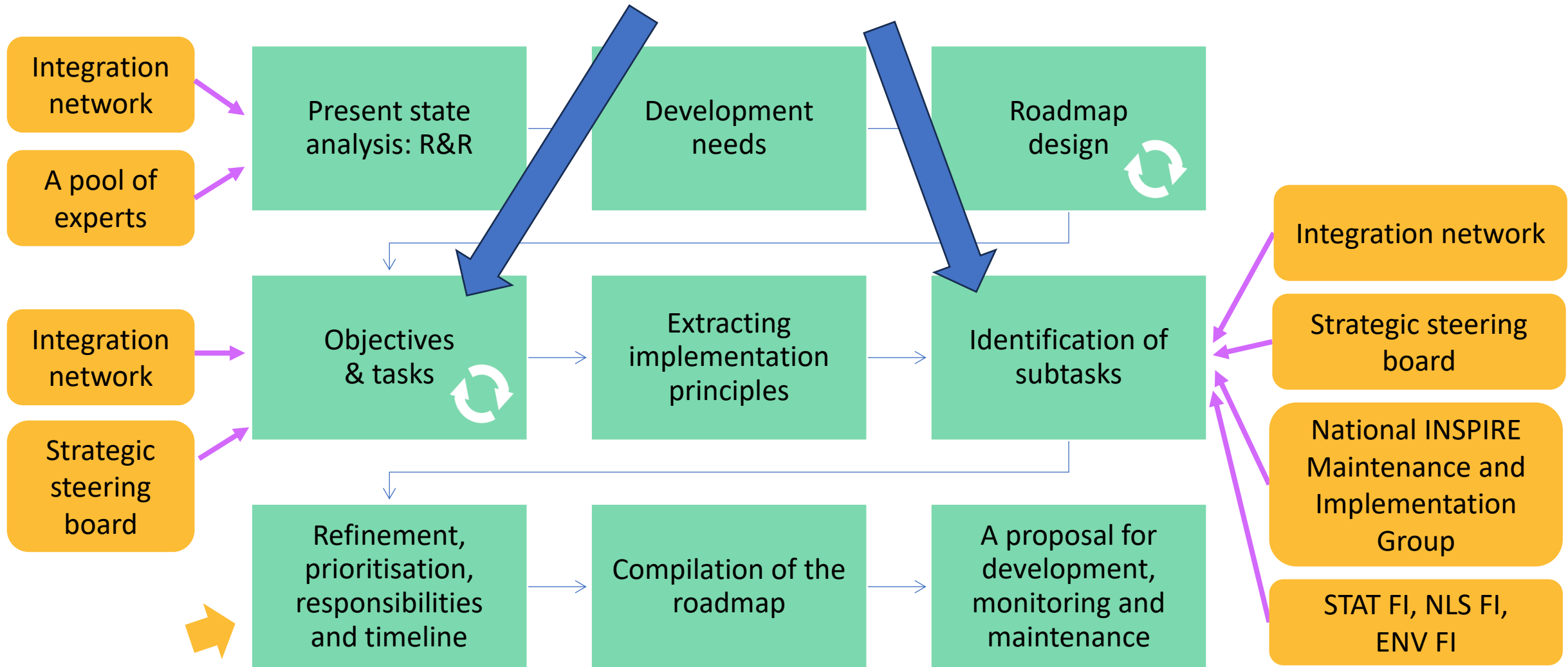
National integration network, strategic steering board, national INSPIRE Maintenance and Implementation Group, public administration organizations, etc.

Example: *GSGF, Principle 1: Use of fundamental geospatial infrastructure and geocoding*

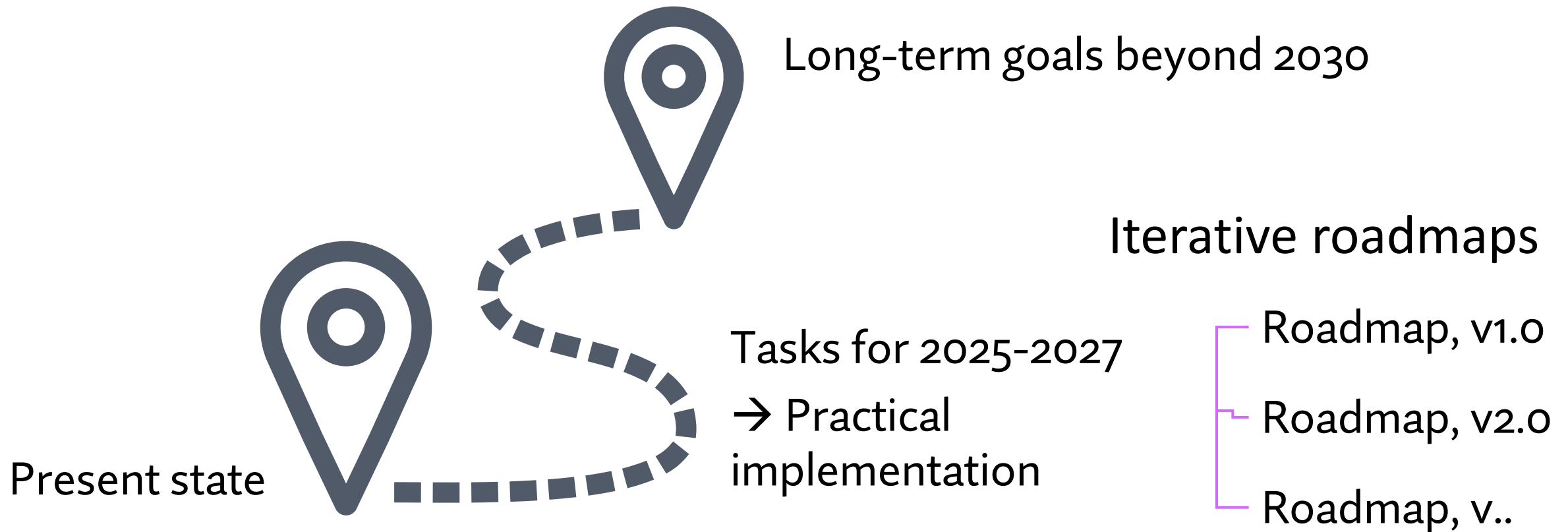
- **Objective 1.2:** High-quality, interoperable national geospatial data, consistent across time and place, are available for both data producers and users
 - **Task 1.2.1:** Establish a national address information system
 - **Task 1.2.2:** Develop consistent national geocoding principles and methods and provide guidelines for their implementation.
 - **Task 1.2.3:** Provide geospatial data in the national spatial data infrastructure as point data whenever possible
 - **Task 1.2.4:** Include the necessary unique identifiers in the spatial data infrastructure
 - **Task 1.2.5:** Describe and communicate changes over time in national geospatial data repositories. Retain different time versions along with their descriptions

Roadmap process

We are here!



From short-term to long-term roadmaps in an iterative manner



Some remarks on the roadmap process and its implementation

- Which stakeholders should take key roles in implementation?
- How small or big steps the stakeholders need to take in order to make progress?
- Complex, interlinked world -> systemic approach needed in exploring linkages of various implementation tasks
- Prioritisation of implementation is crucial
- Budget cuts in public administration decelerate progress
- Need to justify the change in terms of benefits and cost efficiency

Thank you!



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